| Index of | Claims |
|----------|--------|
|          |        |

| Application/ | Control | No. |
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10/787,080

Examiner

Betelhem Shewareged

Applicant(s)/Patent under Reexamination

MISUDA ET AL.

Art Unit

1774

| √ | Rejected |
|---|----------|
| = | Allowed  |

(Through numeral) Cancelled

Restricted

| Z | Non-Elected  |
|---|--------------|
| _ | Interference |

Appeal 0 Objected

|                 |          |          |              |  |              |          |              |  |                |              |     |       |          | _               | _        | Ť            |         |         |        |
|-----------------|----------|----------|--------------|--|--------------|----------|--------------|--|----------------|--------------|-----|-------|----------|-----------------|----------|--------------|---------|---------|--------|
| Cla             | aim      |          |              |  |              | Date     | e            |  |                |              |     | Cla   | im       | Date            |          |              |         |         |        |
| Final           | Original | 2/1/06   |              |  |              |          |              |  |                |              |     | Final | Original |                 |          |              |         |         |        |
|                 | 1        |          |              |  |              |          |              |  |                |              |     |       | 51       |                 |          |              |         | T       | T      |
|                 | 2        |          |              |  |              |          |              |  |                |              | ]   |       | 52       |                 |          | I            | Ι       | oxdot   | Ι      |
|                 | 3        | L        | <u></u>      | <u></u>  | <u></u>      | L        | <u></u>      | _  |                | L            |     |       | 53       |                 |          | ┸            |         | 上       | 1      |
|                 | 4        | _        | _            | L  | 匚            |          | _            | _  |                |              |     |       | 54       | $\sqcup$        |          | $\perp$      | $\perp$ | $\perp$ | 1      |
|                 | 5        |          | <u> </u>     | L  |              | _        |              |  |                |              |     |       | 55       | $\sqcup$        |          | ┸            | ╀       | ┸       | 1      |
| <u></u>         | 6        |          | _            | <u> </u>   |              | L_       | _            |  |                | L            |     |       | 56       | Щ               |          | ↓_           | 1       | 上       | 1      |
| <u> </u>        | 7        | <u> </u> | L            | L  | <u> </u>     | <u> </u> | <u> </u>     | L  |                | <u> </u>     |     |       | 57       | <b>├</b> ─┼     | - -      | ╄            | ╀       | ╄       | 1      |
| <u> </u>        | 8        | ļ        | ļ            | ļ  | <u> </u>     | <u> </u> | <u> </u>     | <u> </u>   | <u> </u>       | <u> </u>     |     |       | 58       | Ш               |          | 4            | ╀       | ┿       | 4      |
| -               | 9        | <u> </u> | <del> </del> | ⊢  | ⊢            | <u> </u> | ⊢            | <u> </u>   | _              | <u> </u>     |     |       | 59       |                 | +        | +            | ╀       | +       | Ŧ      |
| _               | 10<br>11 | <u> </u> | -            | -  | ⊢            | <u> </u> | ├            | <b> </b>   | -              | -            |     |       | 60       | -               | -        | +            | ╀       | +-      | Ŧ      |
| <u> </u>        | 12       | _        | _            | -  | ├            | -        | ├            | <del> </del>                                     | ⊢              | <del> </del> |     |       | 61<br>62 | -               |          | ╁            | ╀       | +       | +      |
|                 | 13       | -        |              | <u> </u>   | -            | ├        | $\vdash$     | ┝  | $\vdash$       | ⊢            |     |       | 63       | $\vdash$        | +        | ╀            | +       | +       | +      |
|                 | 14       | √<br>√   |              |  | ┢            | -        | ⊢            | ┢  | H              | ⊢            |     |       | 64       | ╁               |          | ╁            | ╁       | +       | +      |
|                 | 15       | <b>√</b> |              |  | ╀            | $\vdash$ | ⊢            | ├─   | H              | -            |     |       | 65       | ┝╼┼             |          | ╁            | +       | ₩       | Ŧ      |
|                 | 16       | <b>√</b> |              |  | $\vdash$     | ⊢        | $\vdash$     | $\vdash$   | $\vdash$       | -            |     |       | 66       | $\vdash$        | +        | ╁            | +       | ╁       | Ŧ      |
| -               | 17       | <u> </u> | $\vdash$     | _  | -            | $\vdash$ | $\vdash$     | $\vdash$   | $\vdash$       | $\vdash$     |     |       | 67       | $\vdash$        | -        | ╁            | ╁       | ╁       | t      |
| $\vdash$        | 18       | $\vdash$ | ┢            | -  | -            | $\vdash$ | <del> </del> | ⊢  |                |              |     |       | 68       | $\vdash$        | -        | 十            | ╁╴      | ╁╴      | t      |
| -               | 19       | _        |              | ┝  | $\vdash$     | -        | -            | ├  | _              | -            | 1   |       | 69       | $\vdash$        |          | ╁            | +       | +       | $^{+}$ |
| $\vdash$        | 20       | _        | $\vdash$     |  | <del> </del> | $\vdash$ | $\vdash$     | ┝  | $\vdash$       | $\vdash$     |     |       | 70       | $\vdash$        | +        | +            | +-      | +       | +      |
|                 | 21       | <u> </u> | -            | <del>                                     </del> | $\vdash$     | _        | ⊢            | -  | -              |              | 1 1 |       | 71       | $\vdash$        | +        | +-           | ╁       | ╁╴      | +      |
| -               | 22       | _        | H            | $\vdash$   |              |          | $\vdash$     | $\vdash$   |                |              | 1 1 |       | 72       | $\vdash$        | +        | +            | ╁       | +       | t      |
|                 | 23       |          | $\vdash$     | $\vdash$   |              |          | $\vdash$     | $\vdash$   |                | _            | 1 1 |       | 73       | $\vdash$        | +        | +            | +       | +       | t      |
|                 | 24       | ļ        |              | -  | $\vdash$     |          | ┢            | $\vdash$   |                |              | 1 1 |       | 74       | $\vdash$        |          | +            | ┪       | +       | †      |
| <b></b>         | 25       | _        | $\vdash$     | _  | _            | _        |              | $\vdash$   |                |              | 1 1 |       | 75       | $\vdash$        | $\dashv$ | 十            | +       | 十       | t      |
|                 | 26       |          |              |  | -            |          |              | <del>                                     </del> |                |              | 1 1 |       | 76       | H               |          | T            | 1       | +-      | †      |
|                 | 27       |          |              |  |              |          |              |  |                |              |     |       | 77       |                 |          | +            | $\top$  | 十       | Ť      |
|                 | 28       |          |              |  |              |          |              |  |                |              | 1   |       | 78       | $\Box$          |          | $\top$       |         | T       | Ť      |
|                 | 29       |          |              |  |              |          |              |  |                |              |     |       | 79       |                 | $\neg$   | 1            | T       |         | T      |
|                 | 30       |          |              |  |              |          |              |  |                |              |     |       | 80       |                 |          | Τ            |         | Т       | Ť      |
|                 | 31       |          |              |  |              |          |              |  |                |              |     |       | 81       |                 |          |              |         |         | T      |
|                 | 32       |          |              |  |              |          |              |  |                |              |     |       | 82       |                 |          |              |         | $\Box$  | I      |
|                 | 33       |          |              |  |              |          |              |  |                |              |     |       | 83       |                 |          |              |         |         | Ι      |
|                 | 34       | _        |              | Ĺ  |              |          |              |  |                |              |     |       | 84       | Ш               |          | Ĺ            |         | $\perp$ | 1      |
|                 | 35       | <u> </u> | <u> </u>     | _  | <u> </u>     | _        |              | ــــــــا  |                | _            |     |       | 85       | Ш               |          | $\perp$      | 1       | $\perp$ | 1      |
| $\square$       | 36       | <u> </u> | L.           | <u> </u>   | <u> </u>     | <u> </u> | <u> </u>     | Щ  | Щ              | <u> </u>     |     |       | 86       | $\sqcup$        | _        | 1            | 1       | $\perp$ | 1      |
| <b></b>         | 37       | _        | <u> </u>     |  |              | L        | L            | <u> </u>   |                |              |     |       | 87       |                 |          | $\perp$      | 1       | $\perp$ | 1      |
| <u> </u>        | 38_      | <u> </u> | <u> </u>     | _  | ┞—           | L.       | _            | <u> </u>   | L              | ļ            |     |       | 88       |                 |          | $\downarrow$ | 1       | $\perp$ | 1      |
|                 | 39       | _        | <u> </u>     | _  | <u> </u>     | L        | L_           | <u> </u>   | Щ              | <u> </u>     |     |       | 89       | $\sqcup$        | _ _      | $\perp$      | 1       | +       | 4      |
| <b> </b>        | 40       | -        | <u> </u>     | <u> </u>   | ├            |          |              | $\vdash$   | Щ              | _            |     |       | 90       | $\vdash \vdash$ | _        | +            | +       | +       | +      |
| <del>  </del>   | 41       | $\vdash$ | <u> </u>     | <u> </u>   | -            | <u> </u> | <u> </u>     | <u> </u>   | Ш              | <u> </u>     |     |       | 91       | $\vdash$        | +        | +            | +       | +-      | +      |
|                 | 42       | $\vdash$ | -            |  | <del> </del> | <u> </u> | -            | _  | Н              | <u> </u>     |     |       | 92       | $\vdash$        | +        | +            | +       | +       | +      |
| -               | 43<br>44 | $\vdash$ |              | <u> </u>   | $\vdash$     |          | -            | <u> </u>   | Н              | H            |     |       | 93<br>94 | $\vdash$        | +        | ╀            | ╁       | +-      | +      |
| -               | 45       |          | H            | ⊢  | ├—           | $\vdash$ | H            | <del> </del>                                     | Н              | <u> </u>     |     |       | 95       | $\vdash$        | $\dashv$ | ╀            | +       | +       | +      |
|                 | 46       |          | -            | -  | -            | -        |              | -  | Н              |              |     |       | 96       | $\vdash$        | +        | +            | +       | +-      | +      |
| <u> </u>        | 47       | $\vdash$ | <del></del>  | -  | $\vdash$     | $\vdash$ | $\vdash$     | $\vdash$   | Н              |              |     | -     | 97       | $\vdash$        | +        | ╁            | ╁       | +       | +      |
| $\vdash$        | 48       | $\vdash$ | -            | -  | ├            | $\vdash$ |              | $\vdash$   | $\vdash\vdash$ | <u> </u>     |     | -     | 98       | $\vdash$        | +        | +            | +       | +       | +      |
| $\vdash \vdash$ | 49       | $\vdash$ | -            | -  | -            |          |              |  | Н              | $\vdash$     |     |       | 99       | -               | +        | ╁            | +       | +       | +      |
|                 | 50       | -        | -            | -  | -            | $\vdash$ | -            |  | Н              | -            | }   |       | 100      | $\vdash$        | +        | +            | +-      | ╁       | +      |
| ш               | - 50     |          |              |  | _            |          |              |  |                | L            | ıl  | i     | 100      | LL              |          | _            | Т.      | Ь.      | Т.     |

| Claim       |  | Date     |          |          |          |              |              |          |   |              |  |  |
|-------------|--|----------|----------|----------|----------|--------------|--------------|----------|---|--------------|--|--|
|             |  |          |          |          |          |              |              |          |   |              |  |  |
| ज           | Original                               |          |          |          | l        |              | ĺ            |          | l   |              |  |  |
| Final       | ij                                     |          |          |          | l        |              |              |          | l   |              |  |  |
| -           | Ō                                      |          |          |          | l        |              |              |          | l   |              |  |  |
|             | <b>6</b> 1                             | $\vdash$ | ├        | $\vdash$ | ⊢        | ⊢            | $\vdash$     | -        | ⊢   | ┝            |  |  |
| <u> </u>    | 51                                     | <u> </u> | ┝        | -        | -        | ⊢            |              | ⊢        | ⊢   |              |  |  |
| $\vdash$    | 52                                     | <u> </u> | ├        | -        | ├-       | ├            | _            | $\vdash$ | ⊢   | <u> </u>     |  |  |
| <u> </u>    | 53                                     | _        | ┡        | <u> </u> | ┡        | ⊢            | H            | ┡        | <u> </u>  | <u> </u>     |  |  |
| <u> </u>    | 51<br>52<br>53<br>54<br>55             | <u> </u>     | _            | <u> </u> | <u> </u>  |              |  |  |
| <u></u>     | 55                                     |          | _        | <u> </u> | <u> </u> | _            | _            | <u>L</u> | <u> </u>  | L            |  |  |
|             | 56                                     |          |          | _        |          | _            |              |          | $ldsymbol{ld}}}}}}$ | _            |  |  |
| <u></u>     | 57<br>58                               |          |          | L        |          | L            |              |          | _   |              |  |  |
|             | 58                                     |          |          | _        | <u></u>  | 乚            |              | <u>_</u> | L   | _            |  |  |
|             | 59                                     |          |          |          |          | L            |              |          |   |              |  |  |
|             | 60                                     |          |          | <u> </u> |          |              |              |          |   |              |  |  |
|             | 61                                     |          |          |          |          |              |              |          |   |              |  |  |
|             | 61<br>62                               |          |          |          |          |              |              |          |   |              |  |  |
|             | 63                                     |          |          |          |          |              |              |          |   |              |  |  |
|             | 63<br>64                               |          |          | Γ        |          |              |              |          |   | $\Box$       |  |  |
|             | 65                                     |          |          |          |          |              |              |          | _   | _            |  |  |
|             | 66                                     | _        |          |          |          |              |              | -        | l   |              |  |  |
|             | 67                                     |          | $\vdash$ |          | Н        | _            |              |          |   | Н            |  |  |
| <b>—</b>    | 68                                     | _        | $\vdash$ | ┢        | ┢─       | -            | -            | _        | _   | -            |  |  |
|             | 68<br>69                               | -        | $\vdash$ | _        | ┢        | -            |              |          | $\vdash$  | ⊢            |  |  |
| -           | 70                                     |          |          | -        | ┝        | -            |              | _        | -   | $\vdash$     |  |  |
|             | 70<br>71<br>72<br>73<br>74<br>75<br>76 | _        |          | ┝        | -        | -            | -            |          | -   |              |  |  |
| -           | 70                                     | -        |          | _        | -        | -            | -            | _        | $\vdash$  | $\vdash$     |  |  |
|             | 72                                     | _        | $\vdash$ | _        | <u> </u> | -            | -            | _        | ⊢   | -            |  |  |
|             | 73                                     |          | H        |          | $\vdash$ | -            |              |          | _   | _            |  |  |
|             | 74                                     | _        | _        | <u> </u> | <u> </u> |              | L            | _        | _   | $\vdash$     |  |  |
|             | 75                                     | _        | <u> </u> | ļ        | _        | <u> </u>     | <u> </u>     |          | <u> </u>  |              |  |  |
|             | 76                                     | _        |          |          | <u> </u> | _            | _            | _        | Щ   | L            |  |  |
|             | 77                                     |          | _        |          | _        |              | _            |          |   | $oxed{oxed}$ |  |  |
|             | 78<br>79                               |          |          | _        | <u> </u> |              | _            |          |   | Ш            |  |  |
|             | 79                                     |          |          | L        |          |              |              |          | Щ   |              |  |  |
|             | 80                                     |          |          |          | L        |              |              |          | $\perp$   |              |  |  |
|             | 81                                     |          |          |          | _        |              |              |          |   |              |  |  |
|             | 82                                     |          |          |          |          |              |              |          |   |              |  |  |
|             | 82<br>83                               |          |          |          |          |              |              |          |   |              |  |  |
|             | 84                                     |          |          |          |          |              |              |          |   |              |  |  |
|             | 85                                     |          |          |          |          |              |              |          |   |              |  |  |
|             | 86                                     |          |          |          |          |              |              |          | П   |              |  |  |
|             | 87                                     |          |          |          |          |              |              |          |   |              |  |  |
|             | 88                                     |          |          | Г        |          |              |              |          |   |              |  |  |
|             | 88<br>89                               |          |          | Г        | $\Box$   |              |              | Т        | Т   | П            |  |  |
|             | 90                                     |          |          | Г        | $\Box$   |              |              |          |   | $\Box$       |  |  |
|             | 91                                     |          | $\vdash$ |          |          |              |              | П        |   |              |  |  |
|             | 92                                     |          |          |          |          | $\vdash$     |              |          | Н   | $\vdash$     |  |  |
|             | 93                                     |          |          | $\vdash$ |          |              | $\vdash$     | -        | -   | $\vdash$     |  |  |
| $\vdash$    | 94                                     | $\vdash$ |          | $\vdash$ | $\vdash$ | $\vdash$     | $\vdash$     |          | Н   | $\vdash$     |  |  |
| <del></del> | 95                                     |          | $\vdash$ | $\vdash$ | $\vdash$ | $\vdash$     | <del> </del> | $\vdash$ |   | -            |  |  |
|             | 96                                     |          | H        | $\vdash$ | $\vdash$ | -            | $\vdash$     | -        | H   | $\vdash$     |  |  |
| <u> </u>    | 97                                     |          | $\vdash$ | $\vdash$ |          | $\vdash$     | Н            | -        |   |              |  |  |
| <u> </u>    |  |          | $\vdash$ | $\vdash$ |          | $\vdash$     | $\vdash$     |          | H   | $\vdash$     |  |  |
| <b>—</b>    | 98                                     |          | $\vdash$ | $\vdash$ | <u> </u> | $\vdash$     | Н            |          | $\vdash$  | $\vdash$     |  |  |
|             | 99                                     |          | $\vdash$ | _        | Н        | <del> </del> | -            | -        | <u> </u>  | $\vdash$     |  |  |
| 1           | 100                                    |          |          | 1        |          |              | L            | l        |   |              |  |  |

| Cla   | aim  | Date     |                                     |                    |          |          |            |          |            |                 |  |
|-------|--|----------|-------------------------------------|--------------------|----------|----------|------------|----------|------------|-----------------|--|
|       |  |          |                                     | I                  | <u> </u> |          |            |          |            | П               |  |
| ā     | Original   | l        |                                     |                    | l        |          | l          | İ        | l          |                 |  |
| Final | į  | l        |                                     |                    |          |          | l          | l        | l          |                 |  |
| -     | ō  | l        |                                     |                    |          |          | l          | l        | l          |                 |  |
|       |  | <u> </u> | <u> </u>                            | ⊢                  | <u> </u> | $\vdash$ | <u> — </u> | $\vdash$ | $\vdash$   | $\vdash$        |  |
|       | 101  |          | _                                   | L_                 | _        | $\vdash$ | _          | ╙        | L          |                 |  |
|       | 102  | _        | _                                   | L                  |          |          |            | L        | _          | Ш               |  |
|       | 103  | <u> </u> |                                     |                    |          |          |            |          |            |                 |  |
|       | 104  |          |                                     |                    |          |          |            |          |            |                 |  |
|       | 105  |          |                                     |                    |          |          |            |          |            |                 |  |
|       | 106  |          |                                     |                    |          |          |            | Г        | Г          |                 |  |
|       | 107  |          |                                     | П                  |          |          |            |          | Г          |                 |  |
|       | 101<br>102<br>103<br>104<br>105<br>106<br>107        |          |                                     |                    | _        |          |            | $\vdash$ | $\vdash$   |                 |  |
|       | 109  | _        |                                     | Т                  | _        | Т        | _          | H        | $\vdash$   | $\vdash$        |  |
|       | 110  | _        | _                                   | _                  | $\vdash$ |          | $\vdash$   | ┢        | H          | $\vdash$        |  |
|       | 110<br>111   | _        | $\vdash$                            | $\vdash$           | $\vdash$ | $\vdash$ | $\vdash$   | ┝        | ├          | Н               |  |
|       | 112  | $\vdash$ | $\vdash$                            | $\vdash$           | $\vdash$ | $\vdash$ | $\vdash$   | $\vdash$ | $\vdash$   | $\vdash \vdash$ |  |
|       | 112  | <u> </u> | <u> </u>                            | -                  | $\vdash$ | $\vdash$ | $\vdash$   | $\vdash$ | $\vdash$   | $\vdash$        |  |
|       | 113<br>114<br>115                                    | -        | <u> </u>                            | _                  | <u> </u> | -        | _          | $\vdash$ | <u> </u>   | Н               |  |
|       | 114  | _        | <u> </u>                            | <u> </u>           | _        | $\vdash$ | <u> </u>   | <u> </u> | $\vdash$   | Ш               |  |
|       | 115  |          | L.                                  |                    | <u> </u> |          |            | L_       | _          |                 |  |
|       | 116<br>117<br>118                                    | Ш        | L                                   | L                  | <u> </u> | L_       | L_         | <u> </u> | L_         | Щ               |  |
|       | 117  |          |                                     |                    |          |          |            | L.       | L.         | Ш               |  |
|       | 118  |          |                                     |                    |          |          |            | L        |            |                 |  |
|       | 119<br>120<br>121<br>122<br>123<br>124<br>125<br>126 |          |                                     |                    |          |          |            |          |            | Ш               |  |
|       | 120  |          |                                     |                    |          |          |            |          |            |                 |  |
|       | 121  |          |                                     |                    |          |          |            |          |            |                 |  |
|       | 122  |          |                                     |                    |          |          |            |          |            |                 |  |
|       | 123  |          |                                     |                    |          |          |            |          |            |                 |  |
|       | 124  |          |                                     |                    |          |          |            |          |            |                 |  |
|       | 125  |          |                                     |                    |          |          |            |          | Г          |                 |  |
|       | 126  |          |                                     |                    |          |          |            |          |            |                 |  |
|       | 127  |          |                                     |                    |          |          |            |          |            |                 |  |
|       | 128  |          |                                     |                    |          |          |            |          |            | П               |  |
|       | 129  |          |                                     |                    | _        |          |            |          |            |                 |  |
|       | 130  |          |                                     |                    | $\vdash$ | _        | -          | $\vdash$ | _          |                 |  |
| _     | 131  |          |                                     |                    | _        | -        |            |          | ┝─         | $\vdash$        |  |
|       | 127<br>128<br>129<br>130<br>131<br>132<br>133<br>134 | -        |                                     | $\vdash$           | $\vdash$ |          |            | $\vdash$ | $\vdash$   | H               |  |
|       | 133  | $\vdash$ | H                                   | <del> </del>       | -        | Н        | $\vdash$   | $\vdash$ | $\vdash$   | Н               |  |
|       | 124  |          | <b></b>                             |                    | $\vdash$ | $\vdash$ | $\vdash$   | $\vdash$ | $\vdash$   | $\vdash$        |  |
|       | 125  | -        | Ь.                                  | <del> </del>       | $\vdash$ | $\vdash$ | $\vdash$   | -        | $\vdash$   | $\vdash$        |  |
|       | 135<br>136   | -        | H                                   |                    | $\vdash$ |          | -          | -        | $\vdash$   | $\vdash \vdash$ |  |
|       | 130  | H        | $\vdash$                            | _                  | -        | <u> </u> | _          | $\vdash$ | $\vdash$   | $\vdash\vdash$  |  |
|       | 137  | $\vdash$ | <u> </u>                            |                    | <b> </b> | $\vdash$ | —          | $\vdash$ |            | $\vdash \vdash$ |  |
|       | 138<br>139   | $\vdash$ | Щ.                                  | <u> </u>           | <u> </u> | <u> </u> | _          | ⊢        | <u> </u>   | -               |  |
|       | 139  |          | <u> </u>                            | <u> </u>           | ├_       |          | <u> </u>   | <u> </u> | <u> </u>   | Щ               |  |
|       | 140  | $\vdash$ | <u> </u>                            | <u> </u>           | <u> </u> | $\vdash$ | <u> </u>   | <u> </u> | <u> </u>   | Щ               |  |
|       | 141  | <u> </u> | Ш                                   | _                  | <u> </u> | _        | _          | <u> </u> | <b> </b> _ | $\sqcup$        |  |
|       | 142  |          | L_                                  | L                  | <u> </u> | _        |            | L        | _          | Ш               |  |
|       | 143  |          | $ldsymbol{ldsymbol{ldsymbol{eta}}}$ | _                  | _        |          |            | L        | <u> </u>   |                 |  |
|       | 144  |          |                                     | $oxedsymbol{oxed}$ |          |          |            |          |            |                 |  |
|       | 145  |          |                                     |                    |          |          |            |          |            |                 |  |
|       | 146  |          |                                     |                    |          |          |            |          |            |                 |  |
|       | 147  |          |                                     |                    |          |          |            |          |            | П               |  |
|       | 148  |          |                                     |                    |          |          |            |          |            | $\Box$          |  |
|       | 149  |          |                                     |                    |          |          |            | Г        |            | Н               |  |
|       | 150  |          |                                     |                    |          |          |            | Ι        | $\vdash$   | Н               |  |
|       | . 50   |          | اا                                  |                    |          | _        |            |          |            | لـــا           |  |